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**(54) INORGANIC-ORGANIC HYBRID ELASTOMER
AND ITS PRODUCTION**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain an inorg.-org. hybrid elastomer which is excellent in heat resistance and can be used as automotive or electrical parts for vibrationproof and soundproof purposes by reacting a specific metal alkoxide with a silanol- terminated polydimethylsiloxane.

SOLUTION: An inorg.-org. hybrid elastomer having a rubber elasticity is obtd. by reacting at least one

metal alkoxide (I) selected from among alkoxides of B, Al, Ti, V, Mn, Fe, Co, Ge, Y, Zr, Nb, La, Ce, Ta, and W with a silanol- terminated polydimethylsiloxane (II) without using an acid. Pref. reactant I comprises an alkoxide of a trivalent metal and an alkoxide of a penta- and/or a hexavalent metal in a molar ratio of the alkoxide of a tetravalent metal to the sum of the alkoxides of penta- and hexavalent metals of 0.1-10.0. Pref. 1mol of reactant I is reacted with 0.5-10.0mol of reactant II.

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